

# Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Page # 1 of 2

|                        |   |   |   |   |
|------------------------|---|---|---|---|
| Row 1                  | Reporter name:<br><b>Gordon Sargent</b>   | Submission date:<br><b>10/15/2020</b>   | Contact person (if different than reporter)   | Internal ID                                     |
| Administrative Data    | Address:<br><b>Nufarm Americas Inc<br/>4020 Aerial Center Parkway<br/>Morrisville, NC 27560</b>   |   | Address:  |   |
|                        | Phone #:<br><b>(919) 379-2529</b>   |   | Phone #:  |   |
|                        | Incident Status:<br><b>New</b>  | Location and date of incident<br><b>Study report received<br/>10/14/2020</b>  | Date registrant became aware of incident:<br><b>10/14/2020</b>  | Was incident part of larger study?<br><b>No</b> |
| Row 2                  | EPA Registration # (Product 1)<br><b>35935-48</b>   | EPA Registration # (Product 2)  | EPA Registration # (Product 3)  |   |
| Pesticide(s) Involved  | A.I. (s)<br><b>Lambda-cyhalothrin</b>   | A.I. (s)  | A.I. (s)  |   |
|                        | Product 1 Name<br><b>Lambda-cyhalothrin Technical</b>   | Product 2 Name  | Product 3 Name  |   |
|                        | Exposed to concentrate prior to dilution? <b>NA</b>   | Exposed to concentrate prior to dilution?   | Exposed to concentrate prior to dilution?   |   |
|                        | Formulation   | Formulation   | Formulation   |   |
| Row 3                  | Evidence label directions were not followed? <b>NA</b><br>Intentional misuse? <b>NA</b>   | Incident site: (examples include home, yard, school, industrial, nursery/greenhouse, surface water, commercial turf, building/office, forest/ woods, agricultural (specify crop) right-of-way (rail, utility, highway))<br><br><b>Performing Laboratory:</b><br><br><b>BIOAGRI Laboratorios<br/>Fazenda Lagoa Bonita, Chacara 13<br/>Caixa Postal 08287 – Plnaltina DF 73310-970 BRAZIL</b> | Situation: (act of using product): (examples include mixing/loading, reentry, application, transportation, repair/ maintenance of application equipment, manufacturing/ formulating)<br><br><b>Seed description notes</b> |   |
| Incident Circumstances | Applicator certified PCO? <b>NA</b>   |   |   |   |
|                        | How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff)<br><br><b>Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats</b> |   |   |   |

# Voluntary Industry Reporting Form for 6(a)(2) Incident Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Page # 3 of 2

|   |  |   |   |
|---|--|---|---|
| Demographic information<br>Age:           Sex:<br>Occupation: (if relevant)   | Exposure route:<br><b>Inhalation</b>   | Was adverse effect result of suicide/homicide or attempted suicide/homicide?<br><b>NA</b> | Was protective clothing worn (specify)?<br><br><b>NA</b>  |
| If female, pregnant?<br><b>NA</b>   | Was exposure occupational?<br><b>No</b><br>If yes, days lost due to illness: | Time between exposure and onset of symptoms:<br><b>See study report</b>                   |   |
| Type of medical care sought: (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient).<br><b>NA</b> | List signs/symptoms/adverse effects.<br><br><b>NA</b>                        |   | If lab tests were performed, list test names and results (If available, submit reports).<br><br><b>Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats</b> |
| Exposure data:<br>Amount of pesticide:<br>Exposure duration:<br>Weight:<br><b>See study report</b>  |  |   |   |
| Human severity category:<br><b>NA</b>   |  |   |   |

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Study Title: **Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats**  
Study Concluded on: **02/07/2007**

Performing Laboratory: **BIOAGRI Laboratorios**  
Sponsor: **AGRIPEC QUIMICA E FARMACEUTICA**

## Summary:

“The acute inhalation toxicity test in rats (*Rattus norvegicus*, Wistar-Hannover) was carried out in order to study the possible toxic effects observed after airborne exposure to LAMBDA CYHALOTHRIN TECNICO AGRIPPEC, according to the OECD Guideline 403, 1981.

Three groups of rats (five/sex/concentration) were nose-only exposed to the test item aerosolized diluted in dimethylsulphoxide (DMSO) for a 4-hour exposure period, using a total airflow of 8 L/min. The control group was similarly exposed to DMSO. The aerodynamic particle-size distribution indicated that 41.56 to 52.15% of the aerosol generated was within the respirable size range, with a Mass Median Aerodynamic Diameter (MMAD) from 3.470 to 4.018 µm, and a Geometric Standard Deviation (GSD) from 1.687 to 1.906. The mean actual concentrations tested were 0.013, 0.039 and 0.125 mg/L.

Death was recorded after exposure to the mean actual concentrations of 0.039 mg/L (6 or 20%) and 0.125 mg/L (10 or 33.33%)...

...Therefore, the combined (male and female) median lethal concentration in a 4-hour nose-only exposure period (4-h LC50) to LAMBDA CYHALOTHRIN TECNICO AGRJPEC inhaled by Wistar-f!annover rats was estimated as 0.04 mg/L, with a 95% confidence interval from 0.03 to 0.05 mg/L.”

Internal ID #

# Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

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|                        |   |   |   |   |
|------------------------|---|---|---|---|
| Row 1                  | Reporter name:<br><b>Gordon Sargent</b>   | Submission date:<br><b>10/27/2020</b><br>(resubmission)   | Contact person (if different than reporter)   | Internal ID                                     |
| Administrative Data    | Address:<br><b>Nufarm Americas Inc</b><br><b>4020 Aerial Center Parkway</b><br><b>Morrisville, NC 27560</b>   |   | Address:  |   |
|                        | Phone #:<br><b>(919) 379-2529</b>   |   | Phone #:  |   |
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|                        | Product 1 Name<br><b>Lambda-cyhalothrin Technical</b>   | Product 2 Name  | Product 3 Name  |   |
|                        | Exposed to concentrate prior to dilution? <b>NA</b>   | Exposed to concentrate prior to dilution?   | Exposed to concentrate prior to dilution?   |   |
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| Incident Circumstances | Applicator certified PCO? <b>NA</b>   |   |   |   |
|                        | How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff)<br><br><b>Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats</b> |   |   |   |

# Voluntary Industry Reporting Form for 6(a)(2) Incident Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Page # 3 of 2

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| Demographic information<br>Age:        Sex:<br>Occupation: (if relevant)<br><i>See study report</i>   | Exposure route:<br><b>Inhalation</b>   | Was adverse effect result of suicide/homicide or attempted suicide/homicide?<br><b>NA</b> | Was protective clothing worn (specify)?<br><br><b>NA</b>  |
| If female, pregnant?<br><b>NA</b>   | Was exposure occupational?<br><b>No</b><br>If yes, days lost due to illness: | Time between exposure and onset of symptoms:<br><b>See study report</b>                   |   |
| Type of medical care sought: (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient).<br><b>NA</b> | List signs/symptoms/adverse effects.<br><br><b>NA</b>                        |   | If lab tests were performed, list test names and results (If available, submit reports).<br><br><b>Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats</b> |
| Exposure data:<br>Amount of pesticide:<br>Exposure duration:<br>Weight:<br><b>See study report</b>  |  |   |   |
| Human severity category:<br><b>NA</b>   |  |   |   |

This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)

Study Title: **Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats**  
Study Concluded on: **02/07/2007**

Performing Laboratory: **BIOAGRI Laboratorios**  
Sponsor: **AGRIPEC QUIMICA E FARMACEUTICA**

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Death was recorded after exposure to the mean actual concentrations of 0.039 mg/L (6 or 20%) and 0.125 mg/L (10 or 33.33%)...

...Therefore, the combined (male and female) median lethal concentration in a 4-hour nose-only exposure period (4-h LC50) to LAMBDA CYHALOTHRIN TECNICO AGRJPEC inhaled by Wistar-f!annover rats was estimated as 0.04 mg/L, with a 95% confidence interval from 0.03 to 0.05 mg/L.”

Internal ID #



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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**DATA MATRIX**

|  |  |              |
|--|--|--------------|
| Date August 10, 2020   | EPA Reg. No./File Symbol 35935-48                          | Page 1 of 15 |
| <b>Nufarm Limited</b><br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: <b>Lambda-cyhalothrin Technical (NFA-0480001)</b> |              |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                              |  |              |

| Guideline Reference Number | Series Name   | MRID Number                      | Submitter (EPA CO#) | Status            | Note |
|----------------------------|---|----------------------------------|---------------------|-------------------|------|
| <b>SERIES 810</b>          | <b>PRODUCT PERFORMANCE TEST GUIDELINES</b>                                |                                  |                     |                   |      |
| 810.3100                   | TGAI – General Consideration for Efficacy                                 | 43858601<br>44191401<br>48762913 | 100<br>100<br>64977 | PER<br>PER<br>PER |      |
| <b>SERIES 830</b>          | <b>PRODUCT PROPERTIES TEST GUIDELINES</b>                                 |                                  |                     |                   |      |
| 830.1550                   | TGAI - Product Identity and Composition                                   | 51192701                         | NUFARM              | OWN               |      |
| 830.1600                   | TGAI - Description of the Materials Used to Produce the Product           | 51192701                         | NUFARM              | OWN               |      |
| 830.1650                   | TGAI - Description of the Production Process                              | 51192701                         | NUFARM              | OWN               |      |
| 830.1670                   | TGAI - Discussion of Formation of Impurities                              | 51192701                         | NUFARM              | OWN               |      |
| 830.1700                   | TGAI - Preliminary Analysis   | 51192701                         | NUFARM              | OWN               |      |
| 830.1750                   | TGAI - Certified Limits   | 51192701                         | NUFARM              | OWN               |      |
| 830.1800                   | TGAI - Enforcement Analytical Method                                      | 51192701                         | NUFARM              | OWN               |      |
| 830.6302                   | TGAI – Color  | 51192702                         | NUFARM              | OWN               |      |
| 830.6303                   | TGAI - Physical State   | 51192702                         | NUFARM              | OWN               |      |
| 830.6304                   | TGAI - Odor   | 51192702                         | NUFARM              | OWN               |      |
| 830.6313                   | TGAI - Stability to normal / elevated temperatures, metals and metal ions | 51192702                         | NUFARM              | OWN               |      |
| 830.6314                   | TGAI - Oxidizing/Reducing Reaction  | 51192702                         | NUFARM              | OWN               |      |
| 830.6315                   | TGAI - Flammability   | 51192702                         | NUFARM              | OWN               |      |
| 830.6316                   | TGAI - Explodability  | 51192702                         | NUFARM              | OWN               |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
|---|--|-----------------|



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| Date August 10, 2020  | EPA Reg. No./File Symbol 35935-48                   | Page 2 of 15 |
| Nufarm Limited<br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: Lambda-cyhalothrin Technical (NFA-0480001) |              |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                       |   |              |

| Guideline Reference Number       | Series Name                                    | MRID Number | Submitter (EPA CO#) | Status | Note         |
|----------------------------------|--|-------------|---------------------|--------|--------------|
| <b>SERIES 830</b>                | <b>PRODUCT PROPERTIES TEST GUIDELINES</b>      |             |                     |        |              |
| 830.6317                         | TGAI - Storage Stability                       | 51192702    | NUFARM              | OWN    |              |
| 830.6319                         | TGAI - Miscibility                             |             |                     |        | not required |
| 830.6320                         | TGAI - Corrosion Characteristics               | 51192702    | NUFARM              | OWN    |              |
| 830.6321                         | TGAI - Dielectric Breakdown Voltage            |             |                     |        | not required |
| 830.7000                         | TGAI - pH                                      | 51192702    | NUFARM              | OWN    |              |
| 830.7050                         | TGAI - UV/Visible Absorption                   |             |                     |        | not required |
| 830.7100                         | TGAI - Viscosity                               |             |                     |        | not required |
| 830.7200                         | TGAI - Melting Point                           | 51192702    | NUFARM              | OWN    |              |
| 830.7220                         | TGAI - Boiling Point/Boiling Range             | 51192702    | NUFARM              | OWN    |              |
| 830.7300                         | TGAI - Density, Bulk Density, Specific Gravity | 51192702    | NUFARM              | OWN    |              |
| 830.7370                         | TGAI - Dissociation Constant                   | 51192702    | NUFARM              | OWN    |              |
| 830.7550<br>830.7560<br>830.7570 | TGAI - Partition Coefficient (n-octanol/water) | 51192702    | NUFARM              | OWN    |              |
| 830.7840<br>830.7860             | TGAI - Water Solubility                        | 51192702    | NUFARM              | OWN    |              |
| 830.7950                         | TGAI - Vapor Pressure                          | 51192702    | NUFARM              | OWN    |              |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
|---|--|-----------------|



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| Date August 10, 2020   | EPA Reg. No./File Symbol 35935-48                          | Page 3 of 15 |
| <b>Nufarm Limited</b><br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: <b>Lambda-cyhalothrin Technical (NFA-0480001)</b> |              |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                              |  |              |

| Guideline Reference Number | Series Name   | MRID Number  | Submitter (EPA CO#)  | Status   | Note |
|----------------------------|---|--|--|--|------|
| <b>SERIES 835</b>          | <b>FATE, TRANSPORT AND TRANSFORMATION TEST GUIDELINES</b> |  |  |  |      |
| 835.1230                   | TGAI – Adsorption/Desorption                              | 44861503<br>44861507<br>44861509<br>44074403<br>44074404<br>44074405<br>44074406<br>44074407<br>44075601<br>44774501 | 100<br>100<br>100<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977     | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |      |
| 835.1240                   | TGAI – Leaching Studies                                   | 44075505<br>46535601<br>46535602<br>46535603<br>46535604<br>47647801<br>48072901<br>48762906<br>48762907<br>48762908 | 100<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977 | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |      |
| 835.2120                   | TGAI- Hydrolysis  |  |  |  |      |
| 835.2240                   | TGAI- Photodegradation in Water                           | 44861501<br>44861506<br>44861508   | 100<br>100<br>100  | PER<br>PER<br>PER  |      |
| 835-2410                   | TGAI- Photodegradation in Soil                            |  |  |  |      |
| 835.4100                   | TGAI- Aerobic Soil Metabolism                             | 44861504<br>44861505   | 100<br>100   | PER<br>PER   |      |
| 835.4200                   | TGAI- Anaerobic Soil Metabolism                           |  |  |  |      |

|                      |   |                        |
|----------------------|---|------------------------|
| <b>Signature</b><br> | <b>Name and Title:</b><br>Carrie M. Tackema, Sr. Regulatory Manager | <b>Date</b><br>8-10-20 |
|----------------------|---|------------------------|



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| Date August 10, 2020  | EPA Reg. No./File Symbol 35935-48                   | Page 4 of 15 |
| Nufarm Limited<br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: Lambda-cyhalothrin Technical (NFA-0480001) |              |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                       |   |              |

| Guideline Reference Number | Series Name  | MRID Number                                  | Submitter (EPA CO#)          | Status                   | Note |
|----------------------------|--|--|------------------------------|--------------------------|------|
| <b>SERIES 835</b>          | <b>FATE, TRANSPORT AND TRANSFORMATION TEST GUIDELINES</b>      |  |                              |                          |      |
| 835.4300                   | TGAI- Aerobic Aquatic Metabolism                               | 44075504<br>44367401                         | 100<br>100                   | PER<br>PER               |      |
| 835.4400                   | TGAI – Anaerobic Aquatic Metabolism                            | 44075504                                     | 100                          | PER                      |      |
| 835.6100                   | TGAI - Terrestrial Field Dissipation                           |  |                              |                          |      |
| 835.6200                   | TGAI – Aquatic (sediment) field dissipation                    | 44075504<br>44367403<br>44367404<br>44367404 | 100<br>100<br>100            | PER<br>PER<br>PER        |      |
| <b>SERIES 840</b>          | <b>SPRAY DRIFT TEST GUIDELINES</b>                             |  |                              |                          |      |
| 840.1000                   | Background for Pesticide Aerial Drift Evaluation               | 42976801                                     | 64977                        | PER                      |      |
| 840.1100                   | Spray Droplet Size Spectrum                                    |  |                              |                          |      |
| 840.1200                   | Spray Drift Field Deposition                                   |  |                              |                          |      |
| <b>SERIES 850</b>          | <b>ECOLOGICAL EFFECTS TEST GUIDELINES</b>                      |  |                              |                          |      |
| 850.1010                   | TGAI – Aquatic Invertebrate Acute Toxicity Freshwater Daphnids | 44584001<br>43908810<br>44074401<br>44074402 | 100<br>100<br>64977<br>64977 | PER<br>PER<br>PER<br>PER |      |
| 850.1025                   | TGAI – Oyster Acute Toxicity                                   |  |                              |                          |      |
| 850.1035                   | TGAI- Mysid Acute Toxicity                                     |  |                              |                          |      |
| 850.1045                   | TGAI – Penaeid Acute Toxicity                                  |  |                              |                          |      |
| 850.1055                   | TGAI – Bivalve Acute Toxicity                                  |  |                              |                          |      |
| 850.1075                   | TGAI- Freshwater and Saltwater Fish Acute Toxicity             |  |                              |                          |      |

|   |  |                 |
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|----------------------------|--|--|---|---|------|
| <b>SERIES 850</b>          | <b>ECOLOGICAL EFFECTS TEST GUIDELINES</b>                                  |  |   |   |      |
| 850.1740                   | TGAI – Spiked Whole Sediment 10-day Toxicity Test, Saltwater Invertebrates | 46591501<br>46591502<br>46591503<br>46591504<br>46591505<br>46591506<br>46591507<br>46620401                                     | 64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977                            | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER                      |      |
| 850.1790                   | TGAI – Sediment Toxicity Testing   | 46871501<br>48762901<br>48762902<br>48762903<br>48762904<br>48762905<br>48857501<br>48857502<br>48857503<br>48857504<br>48857505 | 64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977 | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |      |
| 850.2100                   | TGAI- Avian Acute Oral Toxicity  |  |   |   |      |
| 850.2200                   | TGAI- Avian Dietary Toxicity   |  |   |   |      |
| 850.2300                   | TGAI- Avian Reproduction   |  |   |   |      |
| 850.3020                   | TGAI- Honey Bee Acute Contact Toxicity                                     |  |   |   |      |
| 850.4100                   | TGAI- Seedling Emergence and Seedling Growth                               |  |   |   |      |
| 850.4150                   | TGAI- Vegetative Vigor   |  |   |   |      |
| 850.4400                   | TGAI- Aquatic Plant Growth   |  |   |   |      |
| 850.5400                   | TGAI – Aquatic Plant Toxicity ( <i>Lemna</i> spp.)                         |  |   |   |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
|---|--|-----------------|







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401 M Street, S.W.  
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DATA MATRIX

|   |   |              |
|---|---|--------------|
| Date August 10, 2020  | EPA Reg. No./File Symbol 35935-48                   | Page 9 of 15 |
| Nufarm Limited<br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: Lambda-cyhalothrin Technical (NFA-0480001) |              |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                       |   |              |

| Guideline Reference Number | Series Name                       | MRID Number | Submitter (EPA CO#) | Status | Note |
|----------------------------|-----------------------------------|-------------|---------------------|--------|------|
| SERIES 860                 | RESIDUE CHEMISTRY TEST GUIDELINES |             |                     |        |      |
| 860.1500                   | TGAI – Crop Field Trials          | 43781001    | 100                 | PER    |      |
|                            |                                   | 43781002    | 100                 | PER    |      |
|                            |                                   | 43781003    | 100                 | PER    |      |
|                            |                                   | 43908816    | 100                 | PER    |      |
|                            |                                   | 42761201    | 100                 | PER    |      |
|                            |                                   | 42761202    | 100                 | PER    |      |
|                            |                                   | 42761203    | 100                 | PER    |      |
|                            |                                   | 42761204    | 100                 | PER    |      |
|                            |                                   | 42761205    | 100                 | PER    |      |
|                            |                                   | 42761206    | 100                 | PER    |      |
|                            |                                   | 42919201    | 100                 | PER    |      |
|                            |                                   | 43032001    | 100                 | PER    |      |
|                            |                                   | 43908817    | 100                 | PER    |      |
|                            |                                   | 44075501    | 100                 | PER    |      |
|                            |                                   | 44075502    | 100                 | PER    |      |
|                            |                                   | 44124201    | 100                 | PER    |      |
|                            |                                   | 44325701    | 100                 | PER    |      |
|                            |                                   | 44325702    | 100                 | PER    |      |
|                            |                                   | 44325703    | 100                 | PER    |      |
|                            |                                   | 44325704    | 100                 | PER    |      |
|                            |                                   | 44325705    | 100                 | PER    |      |
|                            |                                   | 44325706    | 100                 | PER    |      |
|                            |                                   | 44325707    | 100                 | PER    |      |
|                            |                                   | 44325709    | 100                 | PER    |      |
|                            |                                   | 44325710    | 100                 | PER    |      |
|                            |                                   | 44325712    | 100                 | PER    |      |
|                            |                                   | 44820201    | 100                 | PER    |      |
|                            |                                   | 44820202    | 100                 | PER    |      |
|                            |                                   | 45007001    | 100                 | PER    |      |
|                            |                                   | 45007002    | 100                 | PER    |      |
|                            |                                   | 45007003    | 100                 | PER    |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
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| Date August 10, 2020  | EPA Reg. No./File Symbol 35935-48                   | Page 10 of 15 |
| Nufarm Limited<br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: Lambda-cyhalothrin Technical (NFA-0480001) |               |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                       |   |               |

| Guideline Reference Number | Series Name  | MRID Number | Submitter (EPA CO#) | Status | Note |
|----------------------------|--|-------------|---------------------|--------|------|
| SERIES 860                 | RESIDUE CHEMISTRY TEST GUIDELINES                  |             |                     |        |      |
| 860.1500                   | TGAI – Crop Field Trials                           | 45007004    | 100                 | PER    |      |
|                            |  | 45007006    | 100                 | PER    |      |
|                            |  | 45007007    | 100                 | PER    |      |
|                            |  | 45007008    | 100                 | PER    |      |
|                            |  | 45007009    | 100                 | PER    |      |
|                            |  | 45007012    | 100                 | PER    |      |
|                            |  | 45032401    | 100                 | PER    |      |
|                            |  | 45443101    | 100                 | PER    |      |
|                            |  | 45443102    | 100                 | PER    |      |
|                            |  | 45443103    | 100                 | PER    |      |
|                            |  | 45443104    | 100                 | PER    |      |
|                            |  | 45443105    | 100                 | PER    |      |
|                            |  | 45669201    | 100                 | PER    |      |
|                            |  | 46658301    | 100                 | PER    |      |
|                            |  | 46665302    | 100                 | PER    |      |
|                            |  | 46665303    | 100                 | PER    |      |
|                            |  | 46665304    | 100                 | PER    |      |
|                            |  | 46665305    | 100                 | PER    |      |
|                            |  | 40307101    | 100                 | PER    |      |
|                            |  | 40307103    | 100                 | PER    |      |
|                            |  | 41934601    | 100                 | PER    |      |
|                            |  | 41934603    | 100                 | PER    |      |
|                            |  | 41934604    | 100                 | PER    |      |
|                            |  | 42236001    | 100                 | PER    |      |
| 860.1550                   | TGAI - Proposed Tolerance                          |             |                     |        |      |
| 860.1560                   | TGAI - Reasonable Grounds in Support of Petition   | 45007013    | 100                 | PER    |      |
|                            |  | 46686001    | 100                 | PER    |      |
| 860.1650                   | TGAI - Submittal of Analytical Reference Standards |             |                     |        |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
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| Date August 10, 2020   | EPA Reg. No./File Symbol 35935-48                          | Page 11 of 15 |
| <b>Nufarm Limited</b><br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: <b>Lambda-cyhalothrin Technical (NFA-0480001)</b> |               |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                              |  |               |

| Guideline Reference Number | Series Name                              | MRID Number  | Submitter (EPA CO#)   | Status  | Note |
|----------------------------|--|--|---|---|------|
| <b>SERIES 870</b>          | <b>HEALTH EFFECTS TEST GUIDELINES</b>    |  |   |   |      |
| 870.1100                   | TGAI- Acute Oral Toxicity (rat)          | 44353501<br>45698201   | 100<br>100  | PER<br>PER  |      |
| 870.1200                   | TGAI- Acute Dermal Toxicity              |  |   |   |      |
| 870.1300                   | TGAI- Acute Inhalation Toxicity          |  |   |   |      |
| 870.2400                   | TGAI- Primary Eye Irritation             |  |   |   |      |
| 870.2500                   | TGAI- Primary Skin Irritation            |  |   |   |      |
| 870.2600                   | TGAI- Skin Sensitization                 |  |   |   |      |
| 870.3100                   | TGAI- 90-Day Oral Toxicity (rat)         | 43241901   | 100   | PER   |      |
| 870.3150                   | TGAI- 90-Day Oral Toxicity (non-rodent)  |  |   |   |      |
| 870.3200                   | TGAI- 21/28-Day Dermal Toxicity          | 44353501   | 100   | PER   |      |
| 870.3700                   | TGAI- Prenatal Developmental Toxicity    |  |   |   |      |
| 870.3800                   | TGAI- Reproduction and Fertility Effects |  |   |   |      |
| 870.4100                   | TGAI- Chronic Toxicity                   | 43227901<br>43232101<br>43241902<br>43241903<br>43245301<br>43330801<br>43403401<br>43781004<br>44075503<br>44325711<br>44353503<br>44439501<br>45568001 | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
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| Date August 10, 2020   | EPA Reg. No./File Symbol 35935-48                          | Page 12 of 15 |
| <b>Nufarm Limited</b><br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 | Product: <b>Lambda-cyhalothrin Technical (NFA-0480001)</b> |               |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                              |  |               |

| Guideline Reference Number | Series Name  | MRID Number | Submitter (EPA CO#) | Status | Note |
|----------------------------|--|-------------|---------------------|--------|------|
| <b>SERIES 870</b>          | <b>HEALTH EFFECTS TEST GUIDELINES</b>                                |             |                     |        |      |
| 870.4200                   | TGAI- Carcinogenicity  | 43241902    | 100                 | PER    |      |
| 870.5100                   | TGAI- Bacterial Reverse Mutation                                     |             |                     |        |      |
| 870.5300                   | TGAI- In Vitro Mammalian Gene Mutation                               |             |                     |        |      |
| 870.5375                   | TGAI- In Vitro Mammalian Chromosome Aberration                       |             |                     |        |      |
| 870.5385                   | TGAI – Mammalian Bone Marrow Chromosomal Aberration                  |             |                     |        |      |
| 870.5395                   | TGAI – Mammalian Erythrocyte Micronucleus Test                       |             |                     |        |      |
| 870.6200                   | TGAI – Neurotoxicity Screening Battery                               | 44861510    | 100                 | PER    |      |
|                            |  | 45689101    | 100                 | PER    |      |
|                            |  | 45714301    | 100                 | PER    |      |
|                            |  | 45811001    | 100                 | PER    |      |
|                            |  | 45811002    | 100                 | PER    |      |
|                            |  | 45811003    | 100                 | PER    |      |
| 870.6300                   | TGAI – Developmental Neurotoxicity Study                             | 46449101    | 100                 | PER    |      |
|                            |  | 46449102    | 100                 | PER    |      |
|                            |  | 46526801    | 100                 | PER    |      |
|                            |  | 46526802    | 100                 | PER    |      |
|                            |  | 46526803    | 100                 | PER    |      |
|                            |  | 46526804    | 100                 | PER    |      |
|                            |  | 46526805    | 100                 | PER    |      |
| 870.7485                   | TGA I- Metabolism and Pharmacokinetics                               | 44333801    | 100                 | PER    |      |
| 870.7800                   | TGAI - Immunotoxicity  |             |                     |        |      |
| 870 / 85-2                 | TGAI – Special studies – In Vivo Percutaneous Absorption Study (rat) | 44990402    | 100                 | PER    |      |
|                            |  |             |                     |        |      |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
|---|--|-----------------|



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|---|-----------------|---|----------|---------------|
| Date  | August 10, 2020 | EPA Reg. No./File Symbol                            | 35935-48 | Page 13 of 15 |
| Nufarm Limited<br>4020 Aerial Center Parkway<br>Morrisville, NC 27560 |                 | Product: Lambda-cyhalothrin Technical (NFA-0480001) |          |               |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)                       |                 |   |          |               |

| Guideline Reference Number | Series Name  | MRID Number  | Submitter (EPA CO#)                           | Status  | Note       |
|----------------------------|--|--|---|---|------------|
| <b>SERIES 875</b>          | <b>OCCUPATIONAL AND RESIDENTIAL EXPOSURE TEST GUIDELINES</b> |  |   |   |            |
| 875.1100                   | TGAI - Dermal Exposure – Outdoor                             | CITE ALL   |   | OWN   | Footnote 1 |
| 875.1200                   | TGAI - Dermal Exposure – Indoor                              | CITE ALL   |   | OWN   | Footnote 1 |
| 875.1300                   | TGAI – Inhalation Exposure – Outdoor                         | CITE ALL   |   | OWN   | Footnote 1 |
| 875.1400                   | TGAI - Inhalation Exposure – Indoor                          | CITE ALL   |   | OWN   | Footnote 1 |
| 875.1600                   | TGAI – Application Exposure Monitoring Data Reporting        | CITE ALL   |   | OWN   | Footnote 1 |
| 875.2100                   | TGAI – Foliar Dislodgeable Residue Dissipation               | 44964401<br>44964402<br>44984401<br>44984402<br>44990401<br>45007010<br>45269601 | 100<br>100<br>100<br>100<br>100<br>100<br>100 | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |            |
| 875.2200                   | TGAI – Soil Residue Dissipation                              | 43908815<br>46844801   | 100<br>64977                                  | PER<br>PER                                    |            |
| 875.2400                   | TGAI - Dermal Exposure                                       | CITE ALL   |   | OWN   | Footnote 1 |
| 875.2500                   | TGAI - Inhalation Exposure                                   | CITE ALL   |   | OWN   | Footnote 1 |
| 875.2800                   | TGAI – Descriptions of Human Activity                        | CITE ALL   |   | OWN   | Footnote 1 |

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
|---|--|-----------------|





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|--|-----------------|--|----------|---------------|
| Date   | August 10, 2020 | EPA Reg. No./File Symbol                                   | 35935-48 | Page 15 of 15 |
| <b>Nufarm Limited</b><br><b>4020 Aerial Center Parkway</b><br><b>Morrisville, NC 27560</b> |                 | Product: <b>Lambda-cyhalothrin Technical (NFA-0480001)</b> |          |               |
| Ingredient: Lambda-cyhalothrin (PC Code 128897)  |                 |  |          |               |

| Guideline Reference Number | Series Name   | MRID Number  | Submitter (EPA CO#)   | Status  | Note |
|----------------------------|---|--|---|---|------|
| SERIES 875                 | OCCUPATIONAL AND RESIDENTIAL EXPOSURE TEST GUIDELINES |  |   |   |      |
| 875.2900                   | TGAI – Data Reporting and Calculations                | 44425001<br>46841701<br>47792701<br>47929401<br>47929402<br>47929403<br>47929404<br>47929405<br>48970201<br>49116901<br>49116902 | 64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977<br>64977 | PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER<br>PER |      |

**FOOTNOTES**

1. Nufarm is a member of the Spray Drift Task Force, Outdoor Residential Exposure Task Force, Agricultural Reentry Task Force, and Agricultural Handlers Exposure Task Force.

|   |  |                 |
|---|--|-----------------|
| Signature  | Name and Title:<br>Carrie M. Tackema, Sr. Regulatory Manager | Date<br>8-10-20 |
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**Certification with Respect to Citation of Data**

|   |   |
|---|---|
| Applicant's/Registrant's Name, Address and Telephone Number<br><b>Nufarm Limited<br/>4020 Aerial Center Parkway<br/>Morrisville, NC 27560</b>   | EPA Registration Number/ File Symbol<br><b>35935-48</b> |
| Active Ingredient(s) and/or representative test compound(s):<br><b>Lambda-cyhalothrin (PC code 128897)</b>  | Date<br><b>August 10, 2020</b>                          |
| General use pattern(s) (list all those claimed for this product using 40 CFR Part 158)<br><b>Terrestrial food/non-food; Aquatic food/non-food; forestry; greenhouse food/non-food; nurseries, domestic outdoor and indoor</b> | Product Name<br><b>Lambda-cyhalothrin Technical</b>     |

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

|  |   |
|--|---|
| <input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). | <input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). |
|--|---|

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

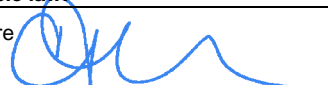
I certify that this application for registration, this form for reregistration, or this Data Call-In Notice is supported by all data submitted or cited in the application for registration, the form for reregistration, or this Data Call-In response. In addition, if cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original submitter or that I have obtained the written permission of the original submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.**

|  |                                |   |
|--|--------------------------------|---|
| Signature<br> | Date<br><b>August 10, 2020</b> | Typed or Printed Name and Title<br><b>Carrie M. Tackema, Sr. Regulatory Manager</b> |
|--|--------------------------------|---|

# PRIA 3 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

September 2012

21 Day Screen Start Date: \_\_\_\_\_

Experts In-Processing Signature: \_\_\_\_\_ Date \_\_\_\_\_ Fee Paid: Yes \_\_\_

Division management contacted on issues No \_\_\_\_\_ Yes \_\_\_\_\_ Date \_\_\_\_\_

| EPA Reg. Number: |   | EPA Receipt Date: |    |  |     |    |      |
|------------------|---|-------------------|----|--|-----|----|------|
| Items for Review |   |                   |    |  | Yes | No | N/A* |
| 1                | <b>Application Form</b> ( <a href="#">EPA Form 8570-1</a> ) signed & complete including package type  |                   |    |  |     |    |      |
| 2                | <b>Confidential Statement of Formula</b> all boxes completed, form signed, and dated ( <a href="#">EPA Form 8570-4</a> )  |                   |    |  |     |    |      |
|                  | a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)  | yes               | no |  |     |    |      |
| 3                | <b>Certification with Respect to Citation of Data</b> ( <a href="#">EPA Form 8570-34</a> ) completed and signed (N/A if 100% repack)                              |                   |    |  |     |    |      |
|                  | Certificate and data matrix consistent  |                   |    |  |     |    |      |
|                  | If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)  | yes               | no |  |     |    |      |
|                  | If applicable, is there a letter of Authorization for exclusive use only.   |                   |    |  |     |    |      |
| 4                | <b>Formulator's Exemption Statement</b> ( <a href="#">EPA Form 8570-27</a> ) completed and signed (N/A if source is unregistered or applicant owns the technical) |                   |    |  |     |    |      |
|                  | <b>Data Matrix</b> ( <a href="#">EPA Form 8570-35</a> ) both internal and external copies ( <a href="#">PR 98-5</a> ) completed and signed (N/A if 100% repack)   |                   |    |  |     |    |      |
| 5                | a) Selective Method (Fee category experts use)  | yes               | no |  |     |    |      |
|                  | b) Cite-All (Fee category experts use)  |                   |    |  |     |    |      |
|                  | c) Applicant owns all data (Fee category experts use)   |                   |    |  |     |    |      |
| 6                | <b>5 Copies of <u>Label</u></b> ( <a href="#">Electronic labels on CD</a> are encouraged and guidance is available)   |                   |    |  |     |    |      |
| 7                | <b>Is the data package consistent with <a href="#">PR Notice 86-5</a></b>   |                   |    |  |     |    |      |
| 8                | <b><a href="#">Notice of Filing</a> included with <a href="#">petitions</a></b>   |                   |    |  |     |    |      |

|    |  |  |  |  |
|----|--|--|--|--|
| 9  | If applicable for conventional applications, <u>reduced risk rationale</u> |  |  |  |
| 10 | <u>Required Data</u> and/or data waivers. See Footnote C.                  |  |  |  |
|    | a) List study (or studies) not included with application                   |  |  |  |

Comments:

TJ

\* N/A – Not Applicable

#### Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency **even if a product is currently registered** by consulting the [inert Web site](#) and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at [inertsbranch@epa.gov](mailto:inertsbranch@epa.gov) and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the [Chief of Microbial Pesticides Branch](#).

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

### **Unapproved Inerts Identified on CSFs**

#### **All applications except conventional new products and PIPs**

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

#### **Conventional New Product Applications**

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

### PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☒ Amendment  
☐ Other:

OPP Identifier Number

### Application for Pesticide - Section I

|   |   |   |
|---|---|---|
| 1. Company/Product Number<br><b>35935-48</b>  | 2. EPA Product Manager<br><b>J. Herrick</b> | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted  |
| 4. Company/Product (Name)<br><b>Lambda-cyhalothrin Technical</b>  | PM#<br><b>3</b>                             |   |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>Nufarm Ltd.<br/>4020 Aerial Center Parkway, Suite 101<br/>Morrisville, NC 27560</b><br><b><u>Please send all correspondence to "contact point" listed below</u></b> |   | 6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to:<br>EPA Reg. No.: _____<br>Product Name: _____ |

### Section - II

- ☒ Amendment – Explain below. ☐ Final printed labels in response to Agency letter dated \_\_\_\_\_  
☐ Resubmission in response to Agency letter dated \_\_\_\_\_ ☐ "Me Too" Application  
☐ Notification - Explain below. ☐ Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

### Application for Amendment PRIA CATEGORY: R351 – SEE ATTACHMENT

#### CONTACT

#### INFORMATION:

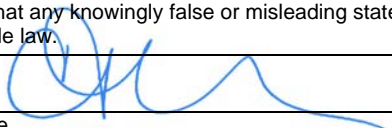
Carrie M. Tackema  
[carrie.tackema@nufarm.com](mailto:carrie.tackema@nufarm.com)

### Section - III

|   |  |   |   |  |  |
|---|--|---|---|--|--|
| 1. Material This Product Will Be Packaged In:   |  |   |   | 2. Type of Container   |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No  | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No | <input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input type="checkbox"/> Paper<br><input type="checkbox"/> Other |  |  |
| <b>* Certification must be submitted</b>  |  | If "Yes" Unit Packaging wgt. No. per container  | If "Yes" Package wgt. No. per container   |  |  |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container   |  | 4. Size(s) Retail Container<br><b>BULK</b>  |   | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product |  |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other - crack and peel<br><input checked="" type="checkbox"/> Paper glued<br><input type="checkbox"/> Stenciled |  |   |   |  |  |

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

|   |   |  |
|---|---|--|
| Name<br><b>Carrie M. Tackema</b>  | Title<br><b>Sr. Regulatory Manager</b>    | Telephone No. (Include Area Code)<br><b>919-379-2528</b> |
| <b>Certification</b><br>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.<br> |   | 6. Date Application Received<br><b>(Stamped)</b>         |
| 2. Signature  | 3. Title<br><b>Sr. Regulatory Manager</b> |  |
| 4. Typed Name<br><b>Carrie M. Tackema</b>   | 4. Date<br><b>August 10, 2020</b>         |  |

**ATTACHMENT TO PRIA R351 SUBMISSION DATED 8-10-20**  
**SECTION II EXPLANATION**  
**EPA REG. NO. 35935-48**

- Nufarm Ltd. is submitting an application to amend Lambda-cyhalothrin Technical (EPA Reg. No. 35935-48) to add an alternate source of active ingredient identified by laboratory code (NFA-0480001). The alternate source (NFA-0480001) is identical or substantially similar in composition to the existing source(s).



**NUFARM AMERICAS INC.**  
4020 Aerial Center Parkway  
Morrisville, NC 27560  
Phone: 919-379-2529

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October 15, 2020

Document Processing Desk [6(a)(2)]  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202

Submitted via CDX PSP

**Subject: 6(a)(2) Single Incidents Report Submission for EPA Company Number 35935 –  
Nufarm Limited  
Acute inhalation toxicity of Lambda-cyhalothrin in rats**

To Whom It May Concern:

Enclosed is a single incident report for Nufarm Limited.

A copy of a study report, "***Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats***" was just received by the office of Nufarm Americas, Inc., in Morrisville, NC.

The results indicate significant toxic effects of Lambda-cyhalothrin in rats. It is unknown if the test substance is the same as Nufarm's Lambda-cyhalothrin Technical product, EPA Registration Number 35935-48.

A copy of the report is included with this submission.

If you have questions or need additional information, please do not hesitate to contact me by phone email at [gordon.sargent@nufarm.com](mailto:gordon.sargent@nufarm.com).

Sincerely,

A handwritten signature in blue ink that reads 'Gordon Sargent'.

Gordon Sargent  
Registration Manager



**NUFARM AMERICAS INC.**  
4020 Aerial Center Parkway  
Morrisville, NC 27560  
Phone: 919-379-2529

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October 27, 2020

Document Processing Desk [6(a)(2)]  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202

Submitted via CDX PSP

**Subject: 6(a)(2) Single Incidents Report Re-Submission for EPA Company Number 35935 – Nufarm Limited**  
**MRID 51344001: Acute Inhalation Toxicity Test of LAMBDA CYHALOTHRIN TECNICO AGRIPEC in Rats; 07/Feb/2007**

To Whom It May Concern:

Enclosed is a single incident report for Nufarm Limited.

A copy of a study report, “**Acute Inhalation Toxicity Test of Lambda-cyhalothrin Tecnico Agripec in Rats**” which concluded in 2007, was only recently received by the office of Nufarm Americas, Inc., in Morrisville, NC. The results indicate significant toxic effects of Lambda-cyhalothrin in rats. It is unknown if the test substance is the same as Nufarm’s Lambda-cyhalothrin Technical product, EPA Registration Number 35935-48.

A copy of the report is included with this submission.

I originally submitted the report on October 15, 2020 through the CDX Portal. However, EPA noted deficiencies in the submission including missing statement of confidentiality and GLP compliance pages; as well as a missing MRID number. All three deficiencies were rectified in this submission.

If you have questions or need additional information, please do not hesitate to contact me by phone or email at [gordon.sargent@nufarm.com](mailto:gordon.sargent@nufarm.com).

Sincerely,

A handwritten signature in blue ink that reads 'Gordon Sargent'.

Gordon Sargent  
Registration Manager



**Via e-Submission**

August 10, 2020

Ms. Jackie Herrick, PM#3  
USEPA (7504P)  
Document Processing Desk (AMEND)  
Room S4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
[nufarm.com](http://nufarm.com)

**RE: Application for Pesticide Registration - AMEND  
*Lambda-cyhalothrin Technical*, EPA Reg. No. 35935-48**

Dear Ms. Herrick:

Nufarm Limited is submitting an application to amend Lambda-cyhalothrin Technical (EPA Reg. No. 35935-48) to add an alternate source of active ingredient identified by laboratory code (NFA-0480001). The alternate source (NFA-0480001) is identical or substantially similar in composition to the existing source(s). Nufarm has determined that this action falls under PRIA Category R351. We have prepaid the service fee for this action and provide the following records of payment:

Pay.gov Tracking ID: 26PLJVLQ  
Agency Tracking ID: 76023535030

In support of this e-Submission action, please find enclosed the data requirements listed in the table below, as well as the following:

- Application for Pesticide Registration (8570-1);
- Certification with Respect to Citation of Data (8570-34);
- Data Matrix- Agency & Public Use Copies (8570-35); and
- Proposed Confidential Statement of Formula (Alt CSF #1).

| Vol. No. | Guideline Series  | Study References   | MRID No.                 |
|----------|-------------------|--|--------------------------|
| 1        | N/A               | Administrative Documents   | <a href="#">51192700</a> |
| 2        | 830-1550-830.1900 | Product Chemistry – Lambda-cyhalothrin Technical (NFA-0480001) Group A-Product Identity, Composition and Analysis; 11 pages (including a 420 page Confidential Attachment) | <a href="#">51192701</a> |
| 3        | 830.6302-830.7950 | Product Chemistry – Lambda-cyhalothrin Technical (NFA-0480001) Group B – Physical and Chemical Characteristics; 487 pages  | <a href="#">51192702</a> |

If you should have any questions or concerns, please contact me at (919) 379-2528 or by email at [carrie.tackema@nufarm.com](mailto:carrie.tackema@nufarm.com).

Sincerely,

Carrie M. Tackema  
Sr. Regulatory Manager

Enclosure(s)

**From:** [notification@pay.gov](mailto:notification@pay.gov)  
**To:** [Carrie Tackema](#)  
**Subject:** Pay.gov Payment Confirmation: PRIA Service Fees  
**Date:** Monday, August 10, 2020 10:18:38 AM

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An official email of the United States government

Pay.gov logo

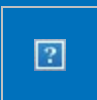


Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Michael Yanchulis at (703) 347-0237 or [yanchulis.michael@epa.gov](mailto:yanchulis.michael@epa.gov).

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 26PLJVLQ  
Agency Tracking ID: 76023535030  
Transaction Type: Sale  
Transaction Date: 08/10/2020 10:17:25 AM EDT  
Account Holder Name: Nufarm Americas Inc  
Transaction Amount: \$13,888.00  
Card Type: MasterCard  
Card Number: \*\*\*\*\*7485

Registration Number: 35935-48  
Company Name: Nufarm Limited  
Company Number: 35935  
Action Code: R351

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



Pay.gov is a program of the U.S. Department of the Treasury, Bureau of the Fiscal Service

**From:** [Jackson, Tracy](#)  
**To:** [Carrie Tackema](#)  
**Subject:** RE: Submission Deficiency EPA Reg. No. 35935-48  
**Date:** Thursday, August 27, 2020 7:41:24 AM  
**Attachments:** [image001.png](#)

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Hello Carrie,

Yes that is fine.

Thank You

Tracy Jackson  
Contractor, US EPA  
2777 S. Crystal Drive, S-4811  
Arlington, VA 22202  
[jackson.tracy@epa.gov](mailto:jackson.tracy@epa.gov)

---

**From:** Carrie Tackema <[carrie.tackema@nufarm.com](mailto:carrie.tackema@nufarm.com)>  
**Sent:** Thursday, August 27, 2020 7:35 AM  
**To:** Jackson, Tracy <[Jackson.Tracy@epa.gov](mailto:Jackson.Tracy@epa.gov)>  
**Subject:** RE: Submission Deficiency EPA Reg. No. 35935-48

Hello Tracy,

The study has been corrected, however, it is a 487 page study and is confidential. Can it be sent back through CDX rather than over unsecure email?

---

**Carrie Tackema**  
Sr. Regulatory Manager

T 919.379.2528  
M 919.323.1368  
[carrie.tackema@nufarm.com](mailto:carrie.tackema@nufarm.com)

4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560 USA  
[nufarm.com](http://nufarm.com)



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**From:** Jackson, Tracy [<mailto:Jackson.Tracy@epa.gov>]  
**Sent:** Tuesday, August 25, 2020 9:20 AM  
**To:** Carrie Tackema <[carrie.tackema@nufarm.com](mailto:carrie.tackema@nufarm.com)>  
**Subject:** Submission Deficiency EPA Reg. No. 35935-48

Dear Carrie Tackema,

My name is Tracy Jackson and I am a contractor with the EPA. I am contacting you regarding your submission supporting the amended registration of Lambda-cyhalothrin Technical. (EPA Reg. Number: 35935-48). We have found a deficiency with the submission that will need to be addressed:

**Study 51192702** (Product Chemistry – Nufarm Lambda-Cyhalothrin Technical (NFA-0480001): Group B – Physical and Chemical Characteristics):

- A. Your Statement of No Data Confidentiality Claims is contradicted by confidential markings on pages 36, 122, 142, 157, 180, 201 and 270.

***Please send a revised study with corrections to this e-mail address as soon as possible. If you have any questions, please do not hesitate to contact me.***

Thank You,

Tracy Jackson  
Contractor, US EPA  
2777 S. Crystal Drive, S-4811  
Arlington, VA 22202  
[jackson.tracy@epa.gov](mailto:jackson.tracy@epa.gov)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 25, 2020

Carrie Tackema  
Senior Regulatory Manager  
Nufarm Ltd.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Subject: Label Amendment – Adding uses to label (barley, buckwheat, cucurbit vegetables, grass, forage, fodder, hay, oats, wild rice, rye, sorghum, and tuberous and corm vegetables)  
Product Name: Lambda-Cyhalothrin Technical  
EPA Registration Number: 35935-48  
Application Date: 10/10/2019  
Decision Number: 556724

Dear Ms. Tackema:

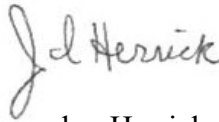
The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Jamey Shuler at (703) 347-8036 or by email at [Shuler.Jamey@epa.gov](mailto:Shuler.Jamey@epa.gov).

Sincerely,

A handwritten signature in dark ink, appearing to read "J. Herrick". The signature is fluid and cursive, with the first letter of the first name being a large, stylized capital 'J'.

Jacquelyn Herrick, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

# Lambda-cyhalothrin

## Technical

**ACCEPTED**

02/25/2020

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 35935-48

**ACTIVE INGREDIENT:**

Lambda-cyhalothrin.....95.0%

**OTHER INGREDIENTS:** .....5.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER / PELIGRO**



**POISON**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

**For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300**

**For Medical Emergencies Only, Call (877) 325-1840**

Manufactured for  
NUFARM LIMITED  
4020 Aerial Center Parkway  
Morrisville, NC 27560



EPA REG. NO. 35935-48  
EPA EST. NO.

NET WEIGHT:      Lbs.      (      Kg)

035935-00048.20200225.amend

| FIRST AID  |  |
|--|--|
| IF SWALLOWED   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| IF ON SKIN OR CLOTHING   | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| IF IN EYES   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| IF INHALED   | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>  |
| <b>HOT LINE NUMBER</b><br>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.<br>You may also contact 1-877-325-1840 for emergency medical treatment information. |  |

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### ANGER / PELIGRO

Fatal if swallowed. May be fatal if absorbed through skin or inhaled. Causes substantial but temporary eye injury. Do not get in eyes, on skin or on clothing. Wear protective clothing, including long sleeved shirt and long pants, socks, shoes, goggles or full face shield and rubber gloves. Do not breathe vapors. Wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco products, or using the toilet. Remove and wash contaminated clothing before reuse.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and other aquatic organisms. Keep out of lakes, streams, or ponds. Do not discharge effluent containing this product directly into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is for manufacturing use only and is intended for formulation into end use products for:

**TERRESTRIAL NONFOOD: Non-croplands (excluding public land), Tobacco (burley and flue-cured).**

**TERRESTRIAL AND AQUATIC FOOD: Alfalfa, Barley, *Brassica* (head and stem), Buckwheat, Canola, Corn (field, pop, seed and sweet), Cotton, Cucurbit Vegetables, Fruiting Vegetables, Garlic, Grass, Forage, Fodder, and Hay, Legume Vegetables, Lettuce (head and leaf), Oats, Onion (dry bulb), Peanuts, Pome Fruits, Rice, Wild Rice, Rye, Sorghum, Stone Fruit, Sugarcane, Sunflower, Tree Nuts, Triticale, Tuberous and Corm Vegetables, and Wheat.**

**FORESTRY: Conifer and Deciduous trees (plantations, nurseries and seed orchards)**

**DOMESTIC INDOOR AND OUTDOOR**

**NON-DOMESTIC INDOOR AND OUTDOOR**

**GREENHOUSE NON-FOOD CROP AND NURSERIES**

All other uses for which the USEPA has accepted the required date and/or citations of data that the formulator has submitted in support of registration.

Uses for experimental purposes that are in compliance with EPA requirements.

Formulators using the product are responsible for obtaining EPA registration for their formulated product.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Keep container closed when not in use. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile and dispose of as directed for pesticides below.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

### CONTAINER HANDLING:

**Nonrefillable container. Do not reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into manufacturing equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into manufacturing equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into manufacturing equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over manufacturing equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities.

## WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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